



Element Materials Technology - Fort Wayne
328 Ley Rd.
Fort Wayne, IN 46825
TEL: (260) 424-1622 FAX: (260) 424-9124
Website: www.element.com

October 21, 2020

Nickie Geros
East Chicago Sanitary District
5201 Indianapolis Blvd
East Chicago, IN 46312
TEL: 219-391-8466
FAX:

RE: S-901

Order No.: 20101296

Dear Nickie Geros:

Element Materials Technology - Fort Wayne received 2 sample(s) on 10/13/2020 for the analyses presented in the following report.

In accordance with your instructions, Element Materials Technology Indiana conducted the analysis shown on the following pages on samples submitted by your company. The results relate only to the items tested. Unless otherwise noted, all analysis was conducted using approved methodologies from EPA, SM, or other client-specified methods. All relevant sampling information is on the attached chain-of-custody form. The initials SUB as the analyst designate any testing sub-contracted by Element Materials Technology Indiana.

This report shall not be reproduced except in full, without the written approval of the laboratory.

If you have any questions regarding these test results, please feel free to call.

Sincerely,

Andrew Etter
Project Manager
328 Ley Rd.
Fort Wayne, IN 46825

Original



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Analytical Report

(continuous)

WO#: 20101296

Date Reported 10/21/2020

CLIENT: East Chicago Sanitary District

Lab Order: 20101296

Project: S-901

Lab ID: 20101296-001

Collection Date: 10/12/2020 8:30:00 AM

Client Sample ID: #901

Matrix: WASTEWATER

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
FLUORIDE				E300.0	Analyst: HN	
Fluoride	2.1	0.5		mg/L	5	10/13/2020 10:38:28 PM
CHEMICAL OXYGEN DEMAND				M5220 D	Analyst: ANS	
Chemical Oxygen Demand	580	10.0		mg/L	1	10/13/2020 6:00:00 PM
AMMONIA AS N				E350.1	Analyst: AC	
Nitrogen, Ammonia (As N)	66.2	1.00		mg/L	10	10/15/2020 2:06:15 PM
PHENOLICS IN WASTEWATER				E420.1	Analyst: ANS	
Phenolics, Total Recoverable	0.172	0.125		mg/L	5	10/18/2020 10:00:00 PM
TOTAL PHOSPHORUS				M4500-P F	Analyst: NB	
Total Phosphorus	0.188	0.100		mg/L	1	10/15/2020 2:50:00 PM
TOTAL SUSPENDED SOLIDS				M2540 D	Analyst: NB	
Suspended Solids (Residue, Non-Filterable)	20	8		mg/L	1	10/16/2020 11:14:00 AM
MERCURY				E245.1	Analyst: FJR	
Mercury	< 0.00010	0.00010		mg/L	1	10/15/2020 11:48:00 AM
METALS IN WATER BY ICP-MS, TOTALS				E200.8	Analyst: FJR	
Arsenic	0.00864	0.00020		mg/L	1	10/19/2020 7:53:41 AM
Chromium	0.00249	0.00040		mg/L	1	10/19/2020 7:53:41 AM
Cobalt	0.00352	0.00010		mg/L	1	10/19/2020 7:53:41 AM
Copper	0.00414	0.00020		mg/L	1	10/19/2020 7:53:41 AM
Lead	0.00073	0.00020		mg/L	1	10/19/2020 7:53:41 AM

Qualifiers:

* Value exceeds Maximum Contaminant Level
J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit
PQL Practical Quantitation Limit
S Spike Recovery outside accepted recovery limits

H Holding times for preparation or analysis exceeded
M Manual Integration used to determine area response
PL Permit Limit
RL Reporting Detection Limit

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CLIENT: East Chicago Sanitary District

Lab Order: 20101296

Project: S-901

METALS IN WATER BY ICP-MS, TOTALS

E200.8

Analyst: FJR

Molybdenum	0.211	0.00200	*	mg/L	10	10/20/2020 7:55:42 AM
Nickel	0.0326	0.00100		mg/L	1	10/19/2020 7:53:41 AM
Tin	< 0.00500	0.00500		mg/L	1	10/19/2020 7:53:41 AM
Zinc	0.0933	0.00040		mg/L	1	10/19/2020 7:53:41 AM

Lab ID: 20101296-002

Collection Date: 10/12/2020 8:30:00 AM

Client Sample ID: #901

Matrix: WASTEWATER

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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CYANIDE, AVAILABLE BY LIGAND EXCHANGE

OIA-1677-09

Analyst: JGB

Cyanide, Available	0.21	0.0020		mg/L	1	10/18/2020 1:41:00 PM
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OIL AND GREASE, TOTAL

E1664

Analyst: HN

Oil & Grease, Total	7.8	5.0		mg/L	1	10/15/2020 2:40:33 PM
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OIL AND GREASE, PETROLEUM HYDROCARBONS

E1664

Analyst: HN

Oil & Grease, Petroleum	8.0	5.0		mg/L	1	10/20/2020 1:55:48 PM
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SV COMPOUNDS FOR CATEGORICAL RQTS

E625

Analyst: SF

Bis(2-ethylhexyl)phthalate	< 0.100	0.100		mg/L	10	10/15/2020 3:48:00 PM
Carbazole	< 0.100	0.100		mg/L	10	10/15/2020 3:48:00 PM
Fluoranthene	< 0.100	0.100		mg/L	10	10/15/2020 3:48:00 PM
n-Decane	< 0.100	0.100		mg/L	10	10/15/2020 3:48:00 PM
n-Octadecane	< 0.100	0.100		mg/L	10	10/15/2020 3:48:00 PM

SEMI-VOLATILES IN WW

E625

Analyst: SF

Phenanthrene	< 0.10	0.10		mg/L	10	10/15/2020 3:48:00 PM
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PL Permit Limit
RL Reporting Detection Limit

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Date Reported 10/21/2020

CLIENT: East Chicago Sanitary District

Lab Order: 20101296

Project: S-901

Qualifiers:

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Original



Chain of Custody

Laboratory Number:

20101296

[illegible]

Which Regulations Apply:				Turn Time	(Rush turn times will incur a surcharge and must be pre-approved by lab.)		Container	Pres.	Requested Tests							Comments		
<input type="checkbox"/> RCRA <input type="checkbox"/> POTW <input type="checkbox"/> NPDES <input type="checkbox"/> USDA/FDA <input type="checkbox"/> RECAP/RISC				5 TAT			Quantity	Type P=Plastic, G=Glass, V=Vial	HCl, HNO ₃ , H ₂ SO ₄ , NaOH, Na ₂ S ₂ O ₃	CYANIDE 1677	Oil & Grease T&SI	**SVOC list	*Metals	NH ₃ , T.PHOS, COD	PHENOL	300: Fluoride	TSS	
Sample ID/Description		Collection Information			Matrix	Quantity	Type P=Plastic, G=Glass, V=Vial	HCl, HNO ₃ , H ₂ SO ₄ , NaOH, Na ₂ S ₂ O ₃	CYANIDE 1677	Oil & Grease T&SI	**SVOC list	*Metals	NH ₃ , T.PHOS, COD	PHENOL	300: Fluoride	TSS		
		Date	Time	Grab / Composite														
S-901 Grab		10-12-20	8:30	Grab	WW	1	P	NAOH		X								
S-901 Grab				Grab	WW	1	G	H2SO4		X								
S-901 Grab				Grab	WW	1	G	NONE			X							
S-901 Composite				Comp	WW	1	P	HNO3				X						
S-901 Composite				Comp	WW	1	P	H2SO4					X					
S-901 Composite				Comp	WW	1	G	H2SO4						X				
S-901 Composite				Comp	WW	2	P	NONE								X	X	

*As, Cr, Cu, Pb, Mo, Ni, Zn, & Hg, Extra: Co, Sn

**Carbazole, n-Decane, Fluoranthene, n-Octadecane, Phenanthrene, Bis(ZEH) Phthalate

Samples Meet Acceptance Policy

Yes No

Relinquished by	Date/Time	Received by	Date/Time	Composite Sampler: Start Date/Time: 0-12-22 8:30 End Date/Time: 0-13-20 8:42
W. Lufkin	10.13.20 / 1050	W. Lufkin	10/13/2020 105322	Received at lab on ice? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Temp: 6°C
W. Lufkin	10/13/2020 319pm	W. Lufkin	10-13-20 15:19	

All samples submitted to Element Materials Technology for analysis are accepted on a custodial basis only. Ownership of the material remains with the client submitting the samples. Element Materials Technology reserves the right to return unused sample portions.

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